

(19) World Intellectual Property Organization
International Bureau



(43) International Publication Date
11 December 2003 (11.12.2003)

PCT

(10) International Publication Number
WO 03/102163 A2

(51) International Patent Classification⁷: **C12N**

(21) International Application Number: PCT/US03/17825

(22) International Filing Date: 4 June 2003 (04.06.2003)

(25) Filing Language: English

(26) Publication Language: English

(30) Priority Data:

60/386,013	4 June 2002 (04.06.2002)	US
60/386,107	4 June 2002 (04.06.2002)	US
60/386,074	4 June 2002 (04.06.2002)	US
60/385,857	4 June 2002 (04.06.2002)	US
60/386,615	5 June 2002 (05.06.2002)	US
60/386,654	5 June 2002 (05.06.2002)	US
60/386,332	5 June 2002 (05.06.2002)	US
60/386,481	5 June 2002 (05.06.2002)	US
60/386,600	5 June 2002 (05.06.2002)	US
60/386,558	5 June 2002 (05.06.2002)	US
60/386,326	5 June 2002 (05.06.2002)	US
60/386,314	5 June 2002 (05.06.2002)	US
60/386,513	5 June 2002 (05.06.2002)	US
60/386,512	5 June 2002 (05.06.2002)	US
60/387,026	6 June 2002 (06.06.2002)	US
60/387,017	6 June 2002 (06.06.2002)	US
60/387,039	6 June 2002 (06.06.2002)	US
60/386,861	6 June 2002 (06.06.2002)	US
60/386,944	6 June 2002 (06.06.2002)	US
60/386,955	6 June 2002 (06.06.2002)	US
60/386,838	6 June 2002 (06.06.2002)	US
60/386,865	20 June 2002 (20.06.2002)	US

(71) Applicant (for all designated States except US):
METABOLEX, INC. [US/US]; 3876 Bay Center Place,
Hayward, CA 94545 (US).

(72) Inventors; and

(75) Inventors/Applicants (for US only): **ALLAN, Bernard**

[IE/US]; 940 Guerrero Street, San Francisco, CA 94110 (US). **GREGOIRE, Francine** [BE/US]; 1044 Carol Lane, Lafayette, CA 94549 (US). **LAVAN, Brian** [GB/US]; 2020 Lawton Street, San Francisco, CA 94122 (US). **MOODIE, Shonna** [GB/US]; 2091 Golden Gate Avenue, San Francisco, CA 94115 (US). **WATERS, Steve** [US/US]; 1 Lobelia Lane, San Ramon, CA 94583 (US). **WONG, Chi-Wai** [CN/US]; 28073 Thorup Lane, Hayward, CA 94542 (US).

(74) Agents: **LOCKYER, Jean, M.** et al.; Townsend and Townsend and Crew LLP, Two Embarcadero Center, Eighth Floor, San Francisco, CA 94111 (US).

(81) Designated States (*national*): AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NI, NO, NZ, OM, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW.

(84) Designated States (*regional*): ARIPO patent (GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZM, ZW), Eurasian patent (AM, AZ, BY, KG, KZ, MD, RU, TJ, TM), European patent (AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IT, LU, MC, NL, PT, RO, SE, SI, SK, TR), OAPI patent (BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG).

Declaration under Rule 4.17:

— of inventorship (Rule 4.17(iv)) for US only

Published:

— without international search report and to be republished upon receipt of that report

For two-letter codes and other abbreviations, refer to the "Guidance Notes on Codes and Abbreviations" appearing at the beginning of each regular issue of the PCT Gazette.

(54) Title: METHODS OF DIAGNOSING AND TREATING DIABETES AND INSULIN RESISTANCE

(57) Abstract: The present invention provides compositions and methods for diagnosing and treating diabetes and insulin resistance. In particular, the invention provides methods of identifying modulators of the polynucleotides or polypeptides of the invention and using those modulators to treat diabetes, as well as methods of diagnosing diabetes by measuring the levels of the polynucleotides or polypeptides of the invention in a patient.



WO 03/102163 A2